

**Goat Anti-FCER1A Antibody (internal region)**  
**Purified Goat Polyclonal Antibody**  
**Catalog # AF4186a**

**Specification**

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**Goat Anti-FCER1A Antibody (internal region) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P12319</a>
Other Accession	<a href="#">NP_001992.1</a>
Reactivity	Human
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	29596

**Goat Anti-FCER1A Antibody (internal region) - Additional Information**

**Gene ID** 2205

**Other Names**

FCER1A; Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide; FCE1A; FcERI; Fc IgE receptor, alpha polypeptide; Fc epsilon RI alpha-chain; Fc-epsilon RI-alpha; high affinity immunoglobulin epsilon receptor alpha-subunit; high affinity immunoglobulin epsilon receptor subunit alpha; igE Fc receptor subunit alpha; immunoglobulin E receptor, high-affinity, of mast cells, alpha polypeptide

**Dilution**

WB~~1:1000  
E~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

Peptide with sequence C-TGKVVQLDYESEP, from the internal region of the protein sequence according to NP\_001992.1.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-FCER1A Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-FCER1A Antibody (internal region) - Protein Information**

**Name** FCER1A

**Synonyms** FCE1A

**Function**

High-affinity receptor for immunoglobulin epsilon/IgE. Mediates IgE effector functions in myeloid cells. Upon IgE binding and antigen/allergen cross-linking initiates signaling pathways that lead to myeloid cell activation and differentiation. On mast cells, basophils and eosinophils stimulates the secretion of vasoactive amines, lipid mediators and cytokines that contribute to inflammatory response, tissue remodeling and cytotoxicity against microbes. Triggers the immediate hypersensitivity response to allergens as a host defense mechanism against helminth parasites, pathogenic bacteria and venom toxicity. When dysregulated, it can elicit harmful life-threatening allergic and anaphylactic reactions.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed in eosinophils.

**Goat Anti-FCER1A Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-FCER1A Antibody (internal region) - Images**



AF4186a (0.3 µg/ml) staining of Human Peripheral Blood Lymphocytes lysate (35 µg protein in

RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-FCER1A Antibody (internal region) - References**

Expression of high-affinity IgE receptor on human peripheral blood dendritic cells in children.  
Vasudev M, Cheung DS, Pincsak H, Li SH, Yan K, Simpson P, Dasu T, Grayson MH. PloS one 2012 7 (2): e32556.